



AMENDMENT TRANSMITTAL LETTER		CLIENT-MATTER NO.: 66692-043 (P-TB 5072)	
SERIAL NO: 10/040,895	FILING DATE: December 28, 2001	EXAMINER: S. Zhou	GROUP ART UNIT: 1631 CONFIRMATION NO.: 1917
INVENTION: METHODS FOR PREDICTING FUNCTIONAL AND STRUCTURAL PROPERTIES OF POLYPEPTIDES USING SEQUENCE MODELS			

TO: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

"EXPRESS MAIL" MAILING LABEL NUMBER: EV 401710872US

DATE OF DEPOSIT: October 23, 2003

I HEREBY CERTIFY THAT THIS PAPER OR FEE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE "EXPRESS MAIL POST OFFICE TO ADDRESSEE" SERVICE UNDER 37 C.F.R. 1.10 ON THE DATE INDICATED ABOVE, AND IS ADDRESSED TO COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.

Rebecca Clifford

(TYPED OR PRINTED NAME OR PERSON MAILING PAPER OR FEE)

Rebecca Clifford

(SIGNATURE OF PERSON MAILING PAPER OR FEE)

Transmitted herewith is a Response to the Office Action mailed September 23, 2003, in the above-identified application.

- Small Entity status of this application has been established under 37 CFR 1.27.
- Petition for -Month Extension of Time is enclosed (in duplicate).
- Terminal Disclaimer with fee under 37 C.F.R. 1.20(d) is enclosed.
- No additional claims fee is required.
- An additional claims fee is required and has been calculated as shown below:

CLAIMS AS AMENDED

	NUMBER AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR		NUMBER OF EXTRA CLAIMS PRESENTED	RATE		FEE	
					SMALL ENTITY	OTHER ENTITY	SMALL ENTITY	OTHER ENTITY
TOTAL CLAIMS	32	-	32	-	0	x \$9	\$18	= \$0.00 \$
INDEPENDENT CLAIMS								
CLAIMS	3	-	3	-	0	x \$42	\$84	= \$0.00 \$
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM		YES		X NO		\$140	\$280	= \$0.00 \$
						TOTAL ADDITIONAL FEE		\$0.00 \$

- * If the "HIGHEST NUMBER PREVIOUSLY PAID FOR" is less than 20, write "20" in this space.
- ** If the "HIGHEST NUMBER PREVIOUSLY PAID FOR" is less than 3, write "3" in this space.
- *** If the difference between the "NUMBER AFTER AMENDMENT" and the "HIGHEST NUMBER PREVIOUSLY PAID FOR" is less than 0, write "0" in the space.
- Please charge my Deposit Account No. 502624 the amount of \$ which covers the fee for a one-month extension of time. A duplicate copy of this sheet is enclosed.
- The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment to Deposit Account No. 502624. A duplicate copy of this sheet is enclosed.

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- X The Commissioner is hereby authorized to charge to Deposit Account No. 502624 any fees under 37 CFR 1.17 which may be required under 37 CFR 1.136(a)(3) for an extension of time in any concurrent or future reply requiring a petition for extension of time. A duplicate copy of this sheet is enclosed.

Respectfully submitted,



Deborah L. Cadena
Registration No. 44,048

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Suite 700
San Diego, California 92122
858-535-9001



PATENT
Client-Matter No.: 66692-043
(P-TB 5072)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of) Confirmation No: 1917
Sem et al.)
Serial No.: 10/040,895) Group Art Unit: 1631
Filed: December 28, 2001)
For: METHODS FOR PREDICTING)
FUNCTIONAL AND STRUCTURAL)
PROPERTIES OF POLYPEPTIDES)
USING SEQUENCE MODELS) CERTIFICATE OF MAILING BY "EXPRESS MAIL"
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Rebecca Clifford

(SIGNATURE OF PERSON MAILING PAPER OR FEE)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RESPONSE TO OFFICE ACTION

Responsive to the Office Action mailed September 23, 2003, entry of the following amendments and remarks is respectfully requested.

Amendments to the specification begin on page 2 of this paper.

Remarks begin on page 3 of this paper.

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AMENDMENTS

On page 1, please amend the first paragraph on lines 2-7 as follows:

This application claims benefit of provisional application serial no. [60/_____] 60/367,371, filed December 29, 2000, now abandoned, which was converted from U.S. Serial No. 09/753,020, filed December 29, 2000, and which is incorporated herein by reference.

On page 8, please amend the paragraph on lines 18-28 as follows:

Figure 11 shows a sequence alignment (SEQ ID NOS:1-17, respectively) made from a structural overlay of pharmacofamily 1. Amino acids shown correspond to those which are within regions that overlap in the structural overlay. All bolded letters are within 4.5 Angstroms from a ligand binding site. Underlining indicates proximity to a cofactor ligand and/or substrate ligand as follows: bold underling indicates proximity to a bound cofactor, double underling indicates proximity to a bound substrate, and dotted underling indicates proximity to both bound cofactor and bound substrate.